



LUD5739-US SEQUENCE LISTING.txt

SEQUENCE LISTING

<110> VALMORI, Danlla  
AYYOUB, Maha  
PINILLA, Clemencia

<120> Isolated, SSX-2 and SSX-2 Related Peptides Useful as HLA Binders  
and CTL Epitopes, and Uses Thereof

<130> LUD 5739 PCT

<150> PCT/US2003/023306

<151> 2003-07-23

<150> 60/400,076

<151> 2002-07-31

<160> 116

<170> PatentIn version 3.2

<210> 1

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<213> Artificial Sequence

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<223> Ala substituted variant of a human sequence

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Ala Ala Ala Pro Lys Ile Phe Tyr Ala  
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Met Leu Leu Ala Val Leu Tyr Cys Leu  
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Glu Leu Ala Gly Ile Gly Ile Leu Thr Val  
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Ile Met Pro Lys Ala Gly Leu Leu Ile  
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Phe Leu Trp Gly Pro Arg Ala Leu Val  
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<400> 30

Val Arg Ile Gly His Leu Tyr Ile Leu  
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<210> 31  
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<400> 31

Tyr Leu Gln Leu Val Phe Gly Ile Glu Val  
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<210> 32  
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Phe Leu Trp Gly Pro Arg Ala Leu Val  
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Gly Leu Tyr Asp Gly Met Glu His Leu  
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<210> 35  
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<400> 35

Met Glu Val Asp Pro Ile Gly His Leu Tyr  
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Glu Val Asp Pro Ile Gly His Leu Tyr  
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Ser Leu Leu Met Trp Ile Thr Gln Cys  
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Glu Val Asp Pro Ile Gly His Leu Tyr  
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Gly Val Tyr Asp Gly Arg Glu His Thr Val  
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<210> 41  
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Glu Ala Asp Pro Thr Gly His Ser Tyr  
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<210> 42  
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Ser Glu Ile Trp Arg Asp Ile Asp Phe  
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Leu Pro Ser Ser Ala Asp Val Glu Phe  
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<210> 44  
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Ser Ala Tyr Gly Glu Pro Arg Lys Leu  
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Tyr Arg Pro Arg Pro Arg Arg Tyr  
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<210> 46  
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Leu Ala Met Pro Phe Ala Thr Pro Met  
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Ala Arg Gly Pro Glu Ser Arg Leu Leu  
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<210> 48  
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<400> 48

Tyr Tyr Trp Pro Arg Pro Arg Arg Tyr  
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<210> 49  
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Ala Ala Arg Ala Val Phe Leu Ala Leu  
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Thr Gln His Phe Val Gln Glu Asn Tyr Leu Glu Tyr  
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<210> 51  
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Ser Leu Leu Met Trp Ile Thr Gln Cys Phe Leu  
1 5 10

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<400> 52

Ala Glu Leu Val His Phe Leu Leu Leu Lys Tyr Arg Ala Arg  
1 5 10

<210> 53  
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Leu Leu Lys Tyr Arg Ala Arg Glu Pro Val Thr Lys Ala Glu  
1 5 10

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<400> 54

Ala Glu Leu Val His Phe Leu Leu Leu Lys Tyr Arg Ala Arg  
1 5 10

<210> 55  
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<400> 55

Glu Tyr Val Ile Lys Val Ser Ala Arg Val Arg Phe  
1 5 10

<210> 56

<211> 14

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<213> Homo sapiens

<400> 56

Leu Leu Lys Tyr Arg Ala Arg Glu Pro Val Thr Lys Ala Glu  
1 5 10

<210> 57

<211> 20

<212> PRT

<213> Homo sapiens

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Pro Gly Val Leu Leu Lys Glu Phe Thr Val Ser Gly Asn Ile Leu Thr  
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Ile Arg Leu Thr  
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<210> 58

<211> 18

<212> PRT

<213> Homo sapiens

<400> 58

Ala Ala Asp His Arg Gln Leu Gln Leu Ser Ile Ser Ser Cys Leu Gln  
1 5 10 15  
Gln Leu

<210> 59

<211> 9

<212> PRT

<213> Artificial

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criteria in is satisfied: Lys at position 5; Phe at position 7; or  
Tyr at position 8

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Ala Ala Ala Pro Lys Gln Phe Leu Ala  
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<210> 60

<211> 9

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<213> Artificial

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Ala Ala Ser Pro Lys Ser Phe Thr Leu  
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<210> 61

<211> 9

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Val Ser Ala Pro Lys Val Phe Gln Ala  
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<210> 62

<211> 9

<212> PRT

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Ile Ala Ser Pro Lys Ala Thr Tyr Val  
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<210> 63

<211> 9

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Val Ser Ala Pro Lys Ile Phe Gln Ala  
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<212> PRT  
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Tyr at position 8

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Asn Ser Leu Pro Lys Val Ala Tyr Ala  
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<210> 65  
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Tyr at position 8

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Ala Ser Leu Pro Lys Val Ser Tyr Val  
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<210> 66  
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Tyr at position 8

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Lys Ala Glu Pro Lys Ala Pro Tyr Ala  
1 5

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Tyr at position 8

<400> 67

His Ser Leu Pro Lys Val Ser Tyr Ala  
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<210> 68

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<211> 9  
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<213> Artificial

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Tyr at position 8

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Thr Ala Ser Pro Lys Glu Phe Tyr Ala  
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Tyr at position 8

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Ala Ser Val Pro Lys Glu Leu Tyr Leu  
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Tyr at position 8

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Ser Pro Asp Pro Lys Ile Cys Tyr Val  
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Tyr at position 8

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Val Ala Glu Pro Lys Glu Ser Tyr Val  
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 Tyr at position 8

<400> 72

Ile Ser Ala Pro Lys Ile Phe Arg Val  
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<210> 73  
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 Tyr at position 8

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Ala Val Tyr Pro Lys Ile Phe Tyr Val  
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 Tyr at position 8

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Lys Ala Ser Glu Lys Ile Ile Tyr Val  
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 Tyr at position 8

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Val Gln Asp Pro Lys Val Thr Tyr Leu  
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Cys Pro Val Pro Lys Ile Phe Tyr Val  
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 Tyr at position 8

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Phe Ala Lys Pro Lys Ile Thr Tyr Val  
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<210> 78  
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 Tyr at position 8

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Gln Thr Pro Pro Lys Ile Asp Tyr Leu  
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 Tyr at position 8

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Leu Arg Ser Pro Lys Leu Phe Tyr Ala  
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 Tyr at position 8

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Lys Tyr Ser Glu Lys Ile Ser Tyr Val  
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Glu Gln Lys Pro Lys Asp Phe Tyr Ala  
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 Tyr at position 8

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Arg Thr Thr Pro Lys Asp Phe Tyr Val  
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 Tyr at position 8

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Arg Ala Asp Pro Lys His Lys Tyr Leu

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1

5

<210> 84

<211> 9

<212> PRT

<213> Artificial

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<223> Peptides with nine amino acids wherein two of the following  
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Tyr at position 8

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Lys Arg Gly Trp Lys Thr Phe Tyr Ala  
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<210> 85

<211> 9

<212> PRT

<213> Artificial

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Tyr at position 8

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Thr Ser Ser Trp Lys Lys Phe Tyr Leu  
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<210> 86

<211> 9

<212> PRT

<213> Artificial

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Tyr at position 8

<400> 86

Leu Ser Arg Pro Lys Arg Phe Tyr Leu  
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<210> 87

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criteria in is satisfied: Lys at position 5; Phe at position 7; or  
Tyr at position 8

<400> 87

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Asn Thr Tyr Pro Lys Gly Phe Tyr Cys  
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<210> 88  
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Tyr at position 8

<400> 88

Ser Lys Leu Pro Lys Asp Phe Tyr Asp  
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<210> 89  
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criteria in is satisfied: Lys at position 5; Phe at position 7; or  
Tyr at position 8

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Ala Leu Ser Pro Lys Glu Phe Tyr Glu  
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Tyr at position 8

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Lys Val Asp Pro Lys Pro Phe Tyr Glu  
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Tyr at position 8

<400> 91

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Val Gly Ser Glu Lys Leu Phe Tyr Glu  
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<210> 92  
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<220>  
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criteria in is satisfied: Lys at position 5; Phe at position 7; or  
Tyr at position 8

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Leu Met Thr Pro Lys Gln Met Tyr Glu  
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<210> 93  
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Tyr at position 8

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Lys Asn Lys Pro Lys Met Asn Tyr Glu  
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Tyr at position 8

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Val Arg Gly Pro Lys Tyr Phe Tyr Gly  
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Tyr at position 8

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<400> 95

Ala Ala Thr Pro Lys Ile Phe Asn Gly  
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<210> 96

<211> 9

<212> PRT

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<223> Peptides with nine amino acids wherein two of the following  
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Tyr at position 8

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<210> 97

<211> 9

<212> PRT

<213> Artificial

<220>

<223> Peptides with nine amino acids wherein two of the following  
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Tyr at position 8

<400> 97

Val Gly Leu Lys Lys Ser Phe Tyr Gly  
1 5

<210> 98

<211> 9

<212> PRT

<213> Artificial

<220>

<223> Peptides with nine amino acids wherein two of the following  
criteria in is satisfied: Lys at position 5; Phe at position 7; or  
Tyr at position 8

<400> 98

Leu Ala Asn Pro Lys Glu Phe Tyr His  
1 5

<210> 99

<211> 9

<212> PRT

<213> Artificial

<220>

<223> Peptides with nine amino acids wherein two of the following  
criteria in is satisfied: Lys at position 5; Phe at position 7; or  
Tyr at position 8

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<400> 99

Ala Ser Ser Pro Lys Val Ala Tyr His  
1 5

<210> 100

<211> 9

<212> PRT

<213> Artificial

<220>

<223> Peptides with nine amino acids wherein two of the following  
criteria in is satisfied: Lys at position 5; Phe at position 7; or  
Tyr at position 8

<400> 100

Gln Tyr Thr Pro Lys Ala Lys Tyr His  
1 5

<210> 101

<211> 9

<212> PRT

<213> Artificial

<220>

<223> Peptides with nine amino acids wherein two of the following  
criteria in is satisfied: Lys at position 5; Phe at position 7; or  
Tyr at position 8

<400> 101

Gln Thr Gly Pro Lys Ser Thr Tyr Ile  
1 5

<210> 102

<211> 9

<212> PRT

<213> Artificial

<220>

<223> Peptides with nine amino acids wherein two of the following  
criteria in is satisfied: Lys at position 5; Phe at position 7; or  
Tyr at position 8

<400> 102

Ser Met Asp Pro Lys Arg Phe Tyr Lys  
1 5

<210> 103

<211> 9

<212> PRT

<213> Artificial

<220>

<223> Peptides with nine amino acids wherein two of the following  
criteria in is satisfied: Lys at position 5; Phe at position 7; or

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Tyr at position 8

<400> 103

Gly Ile Thr Pro Lys Gly Phe Tyr Lys  
1 5

<210> 104

<211> 9

<212> PRT

<213> Artificial

<220>

<223> Peptides with nine amino acids wherein two of the following  
criteria in is satisfied: Lys at position 5; Phe at position 7; or  
Tyr at position 8

<400> 104

Arg Leu Val Pro Lys Leu Phe Tyr Lys  
1 5

<210> 105

<211> 9

<212> PRT

<213> Artificial

<220>

<223> Peptides with nine amino acids wherein two of the following  
criteria in is satisfied: Lys at position 5; Phe at position 7; or  
Tyr at position 8

<400> 105

Pro Ser Ser Pro Lys Val Thr Tyr Lys  
1 5

<210> 106

<211> 9

<212> PRT

<213> Artificial

<220>

<223> Peptides with nine amino acids wherein two of the following  
criteria in is satisfied: Lys at position 5; Phe at position 7; or  
Tyr at position 8

<400> 106

Glu Asp Glu Tyr Lys Ala Phe Tyr Lys  
1 5

<210> 107

<211> 9

<212> PRT

<213> Artificial

<220>

<223> Peptides with nine amino acids wherein two of the following



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criteria in is satisfied: Lys at position 5; Phe at position 7; or  
Tyr at position 8

<400> 107

Thr Leu Gly Pro Lys Ile Thr Tyr Gln  
1 5

<210> 108

<211> 9

<212> PRT

<213> Artificial

<220>

<223> Peptides with nine amino acids wherein two of the following  
criteria in is satisfied: Lys at position 5; Phe at position 7; or  
Tyr at position 8

<400> 108

Glu Lys Glu Gly Lys Pro Phe Tyr Gln  
1 5

<210> 109

<211> 9

<212> PRT

<213> Artificial

<220>

<223> Peptides with nine amino acids wherein two of the following  
criteria in is satisfied: Lys at position 5; Phe at position 7; or  
Tyr at position 8

<400> 109

Val Ala Gln Pro Lys Glu Val Tyr Arg  
1 5

<210> 110

<211> 9

<212> PRT

<213> Artificial

<220>

<223> Peptides with nine amino acids wherein two of the following  
criteria in is satisfied: Lys at position 5; Phe at position 7; or  
Tyr at position 8

<400> 110

Glu Ala Gly Pro Pro Ala Phe Tyr Arg  
1 5

<210> 111

<211> 9

<212> PRT

<213> Artificial

<220>

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<223> Peptides with nine amino acids wherein two of the following  
criteria in is satisfied: Lys at position 5; Phe at position 7; or  
Tyr at position 8

<400> 111

Gln Ile Asn Pro Lys Cys Phe Tyr Thr  
1 5

<210> 112

<211> 9

<212> PRT

<213> Artificial

<220>

<223> Peptides with nine amino acids wherein two of the following  
criteria in is satisfied: Lys at position 5; Phe at position 7; or  
Tyr at position 8

<400> 112

Asp Ile Pro Pro Lys Phe Phe Tyr Thr  
1 5

<210> 113

<211> 9

<212> PRT

<213> Artificial

<220>

<223> Peptides with nine amino acids wherein two of the following  
criteria in is satisfied: Lys at position 5; Phe at position 7; or  
Tyr at position 8

<400> 113

Asp Asp Asn Pro Lys Thr Phe Tyr Trp  
1 5

<210> 114

<211> 9

<212> PRT

<213> Artificial

<220>

<223> Peptides with nine amino acids wherein two of the following  
criteria in is satisfied: Lys at position 5; Phe at position 7; or  
Tyr at position 8

<400> 114

Asp Ala Val Pro Lys Ile Glu Tyr Tyr  
1 5

<210> 115

<211> 9

<212> PRT

<213> Artificial

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<220>

<223> Peptides with nine amino acids wherein two of the following  
criteria in is satisfied: Lys at position 5; Phe at position 7; or  
Tyr at position 8

<400> 115

Val Ile His Glu Lys Gly Phe Tyr Tyr  
1 5

<210> 116

<211> 9

<212> PRT

<213> Artificial

<220>

<223> Peptides with nine amino acids wherein two of the following  
criteria in is satisfied: Lys at position 5; Phe at position 7; or  
Tyr at position 8

<400> 116

Gly Ile Leu Gly Phe Val Phe Thr Leu  
1 5